



**FCC 47 CFR PART 15 SUBPART C**

**TEST REPORT**

**FOR**

**Product Name: Wireless Touch Pad**

**Model : GT-120005  
Trade Name: Genius**

Issued to

**KYE SYSTEMS CORP.**  
No. 492, Sec. 5, Chongxin Rd., Sanchong Dist.,  
New Taipei City 24160, Taiwan, R.O.C.

Issued by

Global Certification Corp.

EMC Test Site	Xizhi office and Lab	<b>No.146, Sec. 2, Xiangzhang Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</b>
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**APPENDIX 1**

**PHOTOS OF TEST CONFIGURATION**

**APPENDIX 2**

**PHOTOS OF EUT**



**1. GENERAL INFORMATION**

**Applicant** : KYE SYSTEMS CORP.  
**Address** : No. 492, Sec. 5, Chongxin Rd., Sanchong Dist.,  
New Taipei City 24160,, Taiwan, R.O.C.  
**Manufacturer** : KYE SYSTEMS CORP.  
**Address** : No. 492, Sec. 5, Chongxin Rd., Sanchong Dist.,  
New Taipei City 24160, Taiwan, R.O.C.  
**EUT** : Wireless Touch Pad  
**Model No.** : GT-120005  
**Model Differences** : N/A

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.4-2003. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.


**FCC part 15 subpart C**

Receipt Date : Oct. 31, 2012

Issue Date : Nov. 21, 2012

New Taipei City, Taiwan  
(Place)

Nov. 21, 2012  
(Date)

  
\_\_\_\_\_  
**Jason Yeh / Vice Manager**  
(Signature) Designation Number: TW1069



**1.1 DESCRIPTION OF THE TESTED SAMPLES**

EUT Name : Wireless Touch Pad  
 Model Number : GT-120005  
 FCC ID : FSUGMZKK  
 Input Voltage : 3Vdc  
 Power From : Inside Outside  
   Adapter Battery AC Power Source DC Power Source  
   Support Unit PC  
 Operate Frequency : Refer to the channel list as described below  
 Modulation Technique : GFSK  
 Number of Channels : 86  
 Channel spacing : N/A \_1\_ MHz  
 Operating Mode : Simplex Duplex  
 Antenna Type : integral antenna: PCB Printing a dedicated antenna  
 Antenna gain : -3dBi

Channels	Frequencies (MHz)	Channels	Frequencies (MHz)	Channels	Frequencies (MHz)	Channels	Frequencies (MHz)
0	2403	22	2425	44	2447	66	2459
1	2404	23	2426	45	2448	67	2460
2	2405	24	2427	46	2449	68	2461
3	2406	25	2428	47	2450	69	2462
4	2407	26	2429	48	2451	70	2463
5	2708	27	2430	49	2452	71	2464
6	2409	28	2431	50	2453	72	2465
7	2410	29	2432	51	2454	73	2466
8	2411	30	2433	52	2455	74	2467
9	2412	31	2434	53	2456	75	2468
10	2413	32	2435	54	2457	76	2469
11	2414	33	2436	55	2458	77	2470
12	2415	34	2437	56	2459	78	2471
13	2416	35	2438	57	2450	79	2472
14	2417	36	2438	58	2451	80	2473
15	2418	37	2440	59	2452	81	2474
16	2419	38	2441	60	2453	82	2475
17	2420	39	2442	61	2454	83	2476
18	2421	40	2443	62	2455	84	2478
19	2422	41	2444	63	2456	85	2479
20	2423	42	2445	64	2457		
21	2424	43	2446	65	2458		



## **2. TEST METHODOLOGY**

All testing as described bellowed were performed in accordance with ANSI C63.4:2003 and FCC CFR 47 Part 15 Subpart C.

### **2.1 GENERAL TEST PROCEDURES**

#### **Conducted Emissions**

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.4:2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

#### **Radiated Emissions**

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.



**2.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( )
13.36 - 13.41			

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2 Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

**2.3 DESCRIPTION OF TEST MODES**

The EUT was tested under following modes:

**Modes:**

1. Continuous transmitting

**Channels:**

1. 2.403GHz (Lowest Channel)
2. 2.440GHz (Middle Channel)
3. 2.479GHz (Highest Channel)



**2.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS**

**Setup Diagram**

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.



**Support Equipment**

Peripherals Devices:

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	NB	2684-BV0	F9385	R33026	IBM	N/A	Unshielded 1.8m
2.	PRINTER	STYLUS PHOTO75 0	BDEK017 629	3872P011	EPSON	Shielded 1.8m	Unshielded 1.8m
3.	USB storage	TS2GJFV 30	156511-6 400	DOC/ D33193	TRANSCEND	Shielded 1m	N/A
EUT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	PCB	Wireless Touch Pad RF Module REV: 2	N/A	N/A	N/A	N/A	N/A
2.	Dongle	N/A	N/A	N/A	Genius	N/A	N/A

**Note:** All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

**Grounding:** Grounding was in accordance with the manufacturer’s requirement and conditions for the intended use.



### 3. TEST AND MEASUREMENT EQUIPMENT

#### 3.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer’s recommendations, and is traceable to recognized national standards.

#### 3.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

**TABLE 1 LIST OF TEST AND MEASUREMENT EQUIPMENT**

Instrument	Manufacturer	Model No.	Serial No.	Calibration Due Date	Note
EMC Test Receiver	R&S	ESCI	100438	Apr. 29, 2013	
Bilog Antenna	SUNOL	JB1	A052104	Sep.30, 2013	
Bilog Antenna	SUNOL	JB1	A052104	Jul. 27, 2013	
Turn table	EMCO	2080	9508-1805	N/A	
Controller	EMCO	2090	9804-1328	N/A	
Amplifier	G.W	GAP-801	EF150001	Jul.18, 2013	
Amplifier	Schwarzbeck	BBV 9718	9718-008	Aug. 10, 2013	
Spectrum Analyzer	NEX1	NS-265	5044006	Aug. 08, 2013	
RF Cable	BELDEN	RG-8/U	E037	Jun.07, 2013	
RF Cable	Huber Suhner	SUCOFLEX 104	293864/4	Nov. 13, 2013	
Thermo-Hygro meter	WISEWIND	4-IN-1	0412	Apr.10, 2013	
Loop Antenna	Teseq GmbH	HLA 6120	26439	Sep. 11, 2013	
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-491	Aug. 05, 2013	

※ Calibration interval of instruments listed above is one year





**4. SECTION 15.249 REQUIREMENTS (FUNDAMENTAL / HARMONICS)**

**4.1 TEST SETUP**

Refer to paragraph 6.1.

**4.2 LIMIT**

<b>Fundamental Frequency (MHz)</b>	<b>Field Strength of Fundamental (dBµV/m at 3-meter)</b>	<b>Detector</b>
902 - 928 2400 – 2483 5725 - 5875	114	Peak
902 - 928 2400 – 2483 5725 - 5875	94	AV

<b>Fundamental Frequency (MHz)</b>	<b>Field Strength of Harmonics (dBµV/m at 3-meter)</b>	<b>Detector</b>
902 - 928 2400 – 2483 5725 - 5875	74	Peak
902 - 928 2400 – 2483 5725 - 5875	54	AV

**4.3 RESULT: PASS**



4.4 TEST DATA:

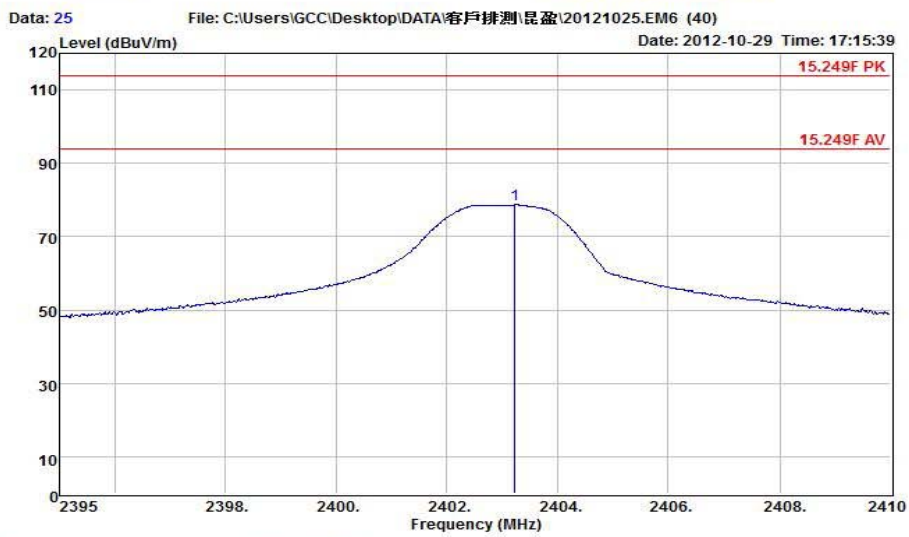
4.4.1 Fundamental

Lowest Channel-Horizontal



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 HORIZONTAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHL  
 °C/% :

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2403.24	103.36	-24.65	78.71	114.00 -35.29 Peak

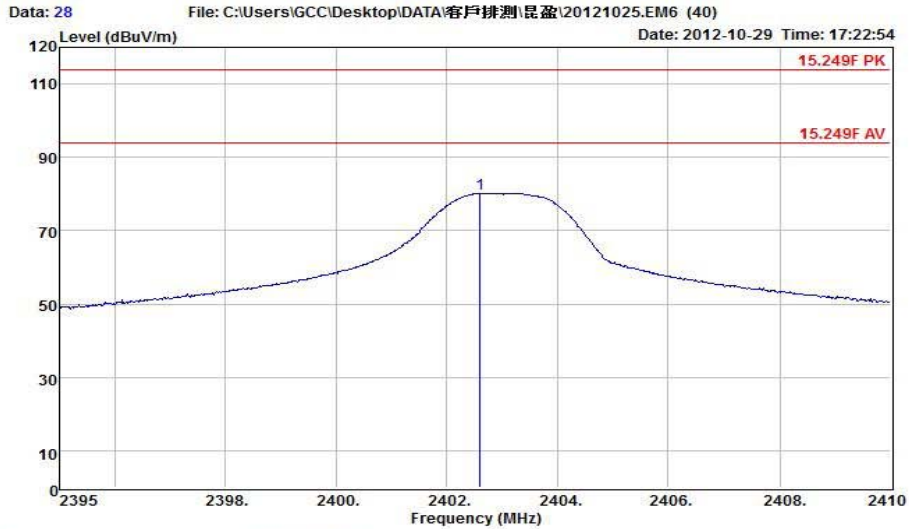


Lowest Channel-Vertical



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 VERTICAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHL  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2402.61	104.80	-24.65	80.15	114.00 -33.85 Peak

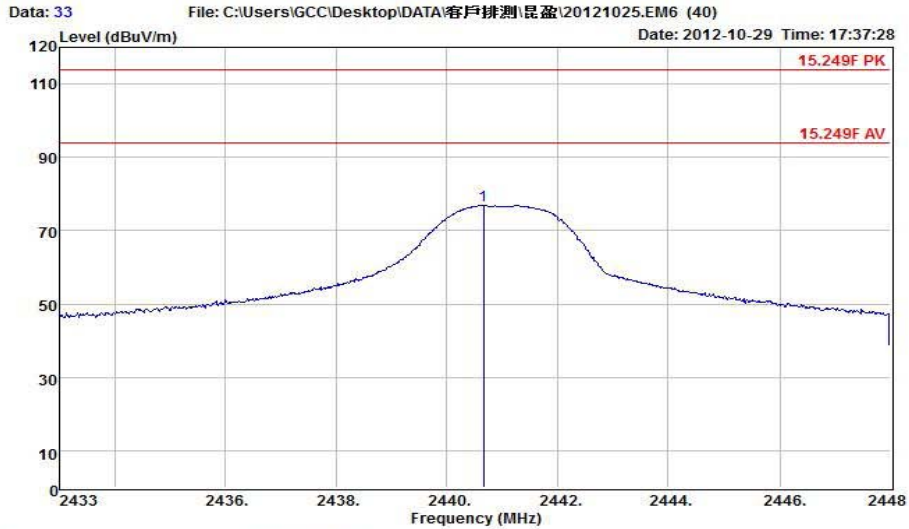


Middle Channel-Horizontal



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 HORIZONTAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHM  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2440.67	101.38	-24.59	76.79	114.00 -37.21 Peak

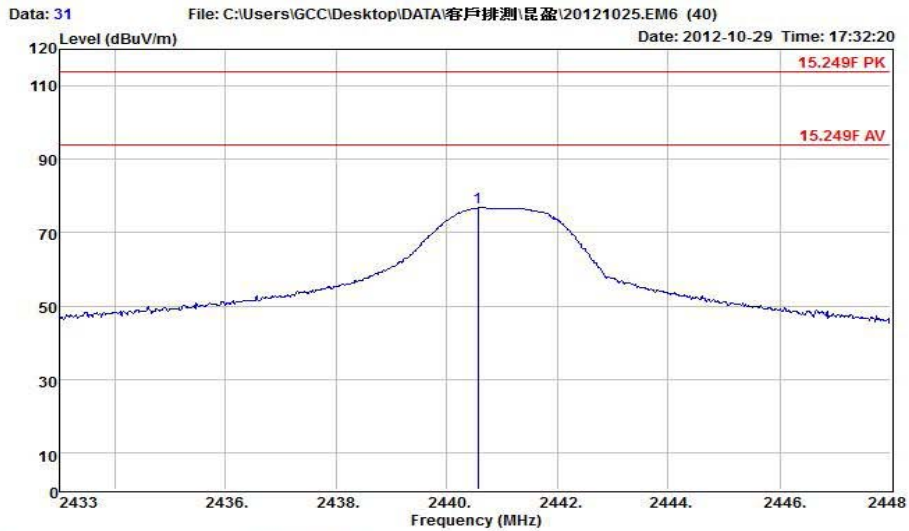


Middle Channel-Vertical



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 VERTICAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHM  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2440.58	101.40	-24.59	76.81	114.00 -37.19 Peak

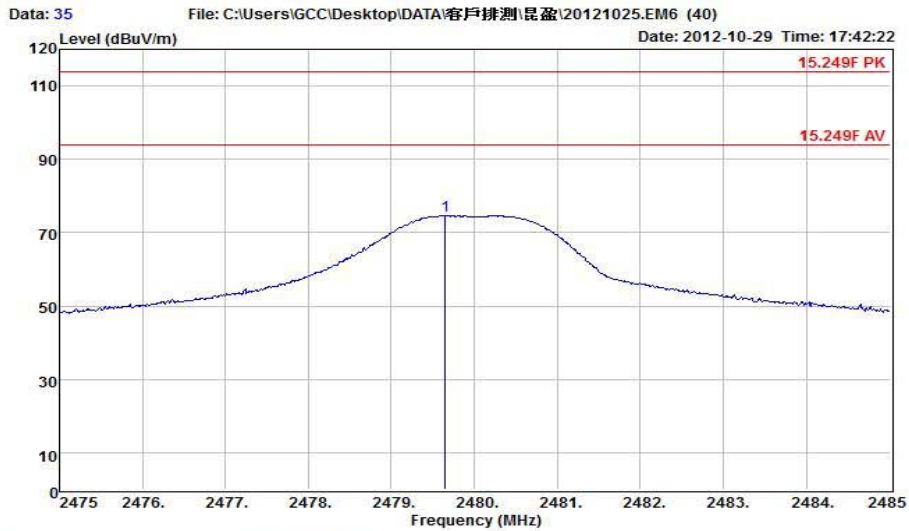


Highest Channel-Horizontal



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 HORIZONTAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHH  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2479.65	99.23	-24.53	74.70	114.00 -39.30 Peak

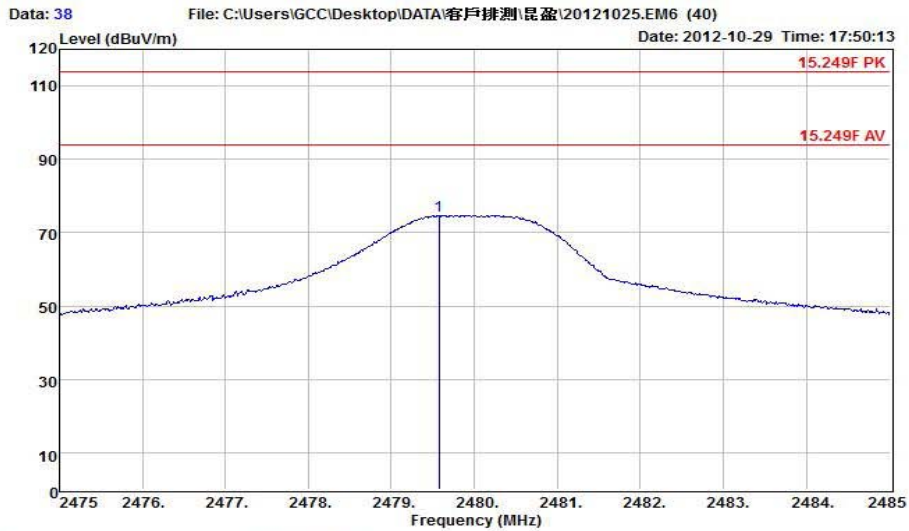


Highest Channel-Vertical



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Site : GCC\_RE-02  
 Condition : 15.249F PK 3m 3117(1G-18G)101 VERTICAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHH  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2479.58	99.28	-24.53	74.75	114.00 -39.25 Peak



**4.4.2 Harmonics**

**Lowest Channel**

**HORIZONTAL**

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4817.50	57.63	-24.26	33.37	74.00	-40.63	Peak
2	7120.00	56.37	-22.97	33.40	74.00	-40.60	Peak
3	9947.50	57.14	-22.73	34.41	74.00	-39.59	Peak

**VERTICAL**

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4817.50	58.24	-24.26	33.98	74.00	-40.02	Peak
2	7262.50	56.92	-22.97	33.95	74.00	-40.05	Peak
3	9917.50	58.20	-22.73	35.47	74.00	-38.53	Peak

**Middle Channel**

**HORIZONTAL**

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4885.00	58.55	-24.25	34.30	74.00	-39.70	Peak
2	7330.00	58.70	-22.98	35.72	74.00	-38.28	Peak
3	9917.50	56.60	-22.73	33.87	74.00	-40.13	Peak

**VERTICAL**

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4885.00	62.11	-24.25	37.86	74.00	-36.14	Peak
2	7330.00	58.67	-22.98	35.69	74.00	-38.31	Peak
3	9947.50	57.61	-22.73	34.88	74.00	-39.12	Peak





**Highest Channel**

**HORIZONTAL**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4982.50	55.80	-24.23	31.57	74.00	-42.43	Peak
2	7450.00	58.50	-22.97	35.53	74.00	-38.47	Peak
3	9797.50	56.48	-22.71	33.77	74.00	-40.23	Peak

**VERTICAL**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	4915.00	56.31	-24.24	32.07	74.00	-41.93	Peak
2	7420.00	56.42	-22.97	33.45	74.00	-40.55	Peak
3	9865.00	56.81	-22.72	34.09	74.00	-39.91	Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor = Antenna factor + Cable loss - PreAmp
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW.
6. Peak detector measurement data will represent the worst case results.
7. “---” denotes the data which is not available.



**5. SECTION 15.205 REQUIREMENTS (BAND EDGE)**

**5.1 TEST SETUP**

Refer to paragraph 6.1.

**5.2 LIMIT**

Restricted Bands:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

Operation within the bands:

902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

Frequency (Hz)	Field Strength ( $\mu$ V/m at 3-meter)	Field Strength (dB $\mu$ V/m at 3-meter)
1.705-30	30 (at 30-meter)	49.5
30-88	100	40
88-216	150	43
216-960	200	46
Above 960	500	54

**5.3 RESULT: PASS**



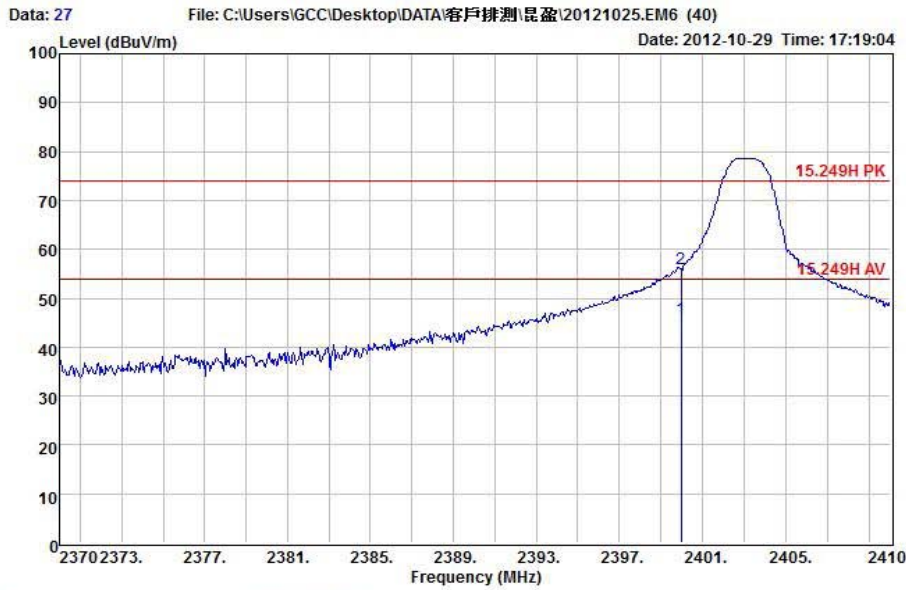
5.4 TEST DATA:

Lowest Channel-Horizontal



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Site : GCC\_RE-02  
 Condition : 15.249H PK 3m 3117(1G-18G)101 HORIZONTAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHL  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2400.00	70.45	-24.64	45.81	54.00 -8.19 Average
2	2400.00	80.54	-24.64	55.90	74.00 -18.10 Peak

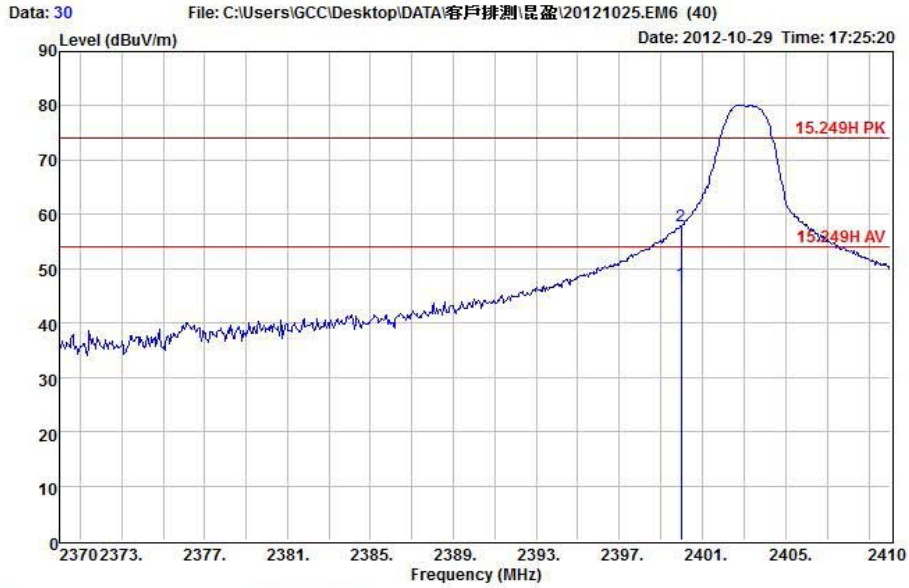


Lowest Channel-Vertical



環球認證有限公司  
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No.146, Sec. 2, Xiangzhang Rd.,  
Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)  
TEL:886-2-26426992 FAX:886-2-26487450  
WebSite: http://www.gcc.tw



Site : GCC\_RE-02  
 Condition : 15.249H PK 3m 3117(1G-18G)101 VERTICAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHL  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2400.00	71.89	-24.64	47.25	54.00 -6.75 Average
2	2400.00	82.64	-24.64	58.00	74.00 -16.00 Peak

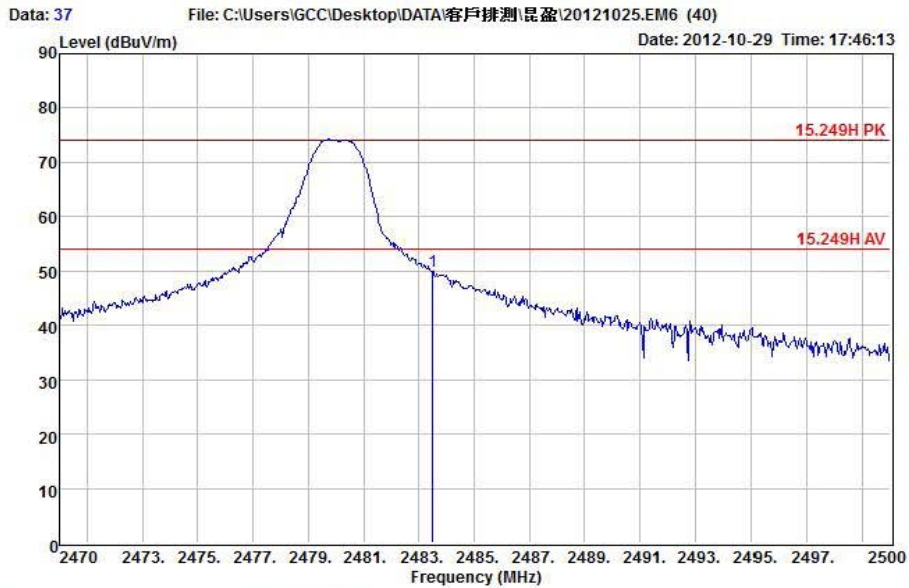


Highest Channel-Horizontal



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WebSite: http://www.gcc.tw



Site : GCC\_RE-02  
 Condition : 15.249H PK 3m 3117(1G-18G)101 HORIZONTAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHH  
 °C/%

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2483.50	74.50	-24.52	49.98	74.00 -24.02 Peak

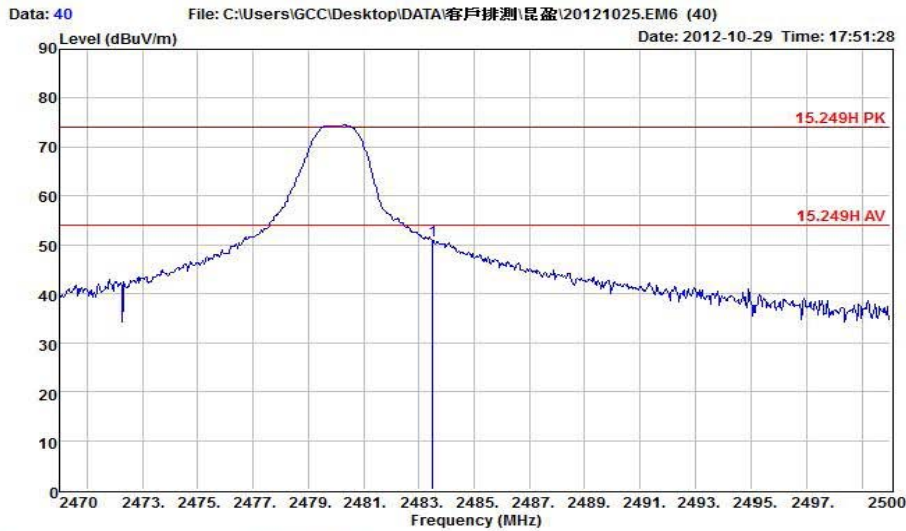


Highest Channel-Vertical



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TEL:886-2-26426992 FAX:886-2-26487450  
WebSite: http://www.gcc.tw



Site : GCC\_RE-02  
 Condition : 15.249H PK 3m 3117(1G-18G)101 VERTICAL  
 EUT : Please refer to page 1 of report  
 MODE : Please refer to page 1 of report  
 MEMO : TX CHH  
 °C/%

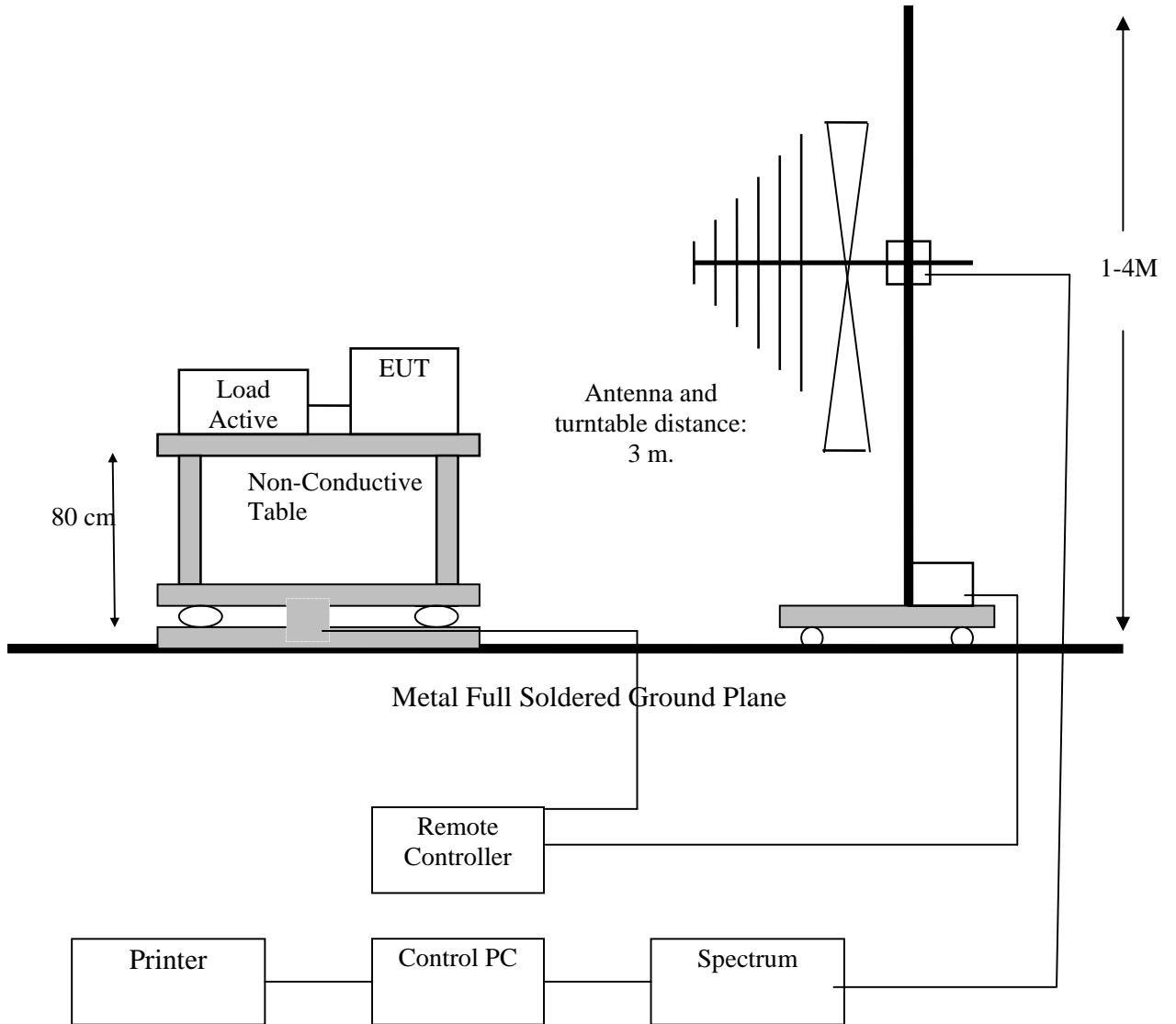
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2483.50	75.46	-24.52	50.94	74.00	-23.06 Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor = Antenna factor + Cable loss - PreAmp
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW.
6. Peak detector measurement data will represent the worst case results.

**6. SECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION)**

**6.1 TEST SETUP**





## 6.2 LIMIT

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
1.705-30	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500*	3

*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

*In the above emission table, the tighter limit applies at the band edges.*

Frequency (Hz)	Field Strength ( $\mu$ V/m at 3-meter)	Field Strength (dB $\mu$ V/m at 3-meter)
1.705-30	30 (at 30-meter)	49.5
30-88	100	40
88-216	150	43
216-960	200	46
Above 960	500	54

## 6.3 TEST PROCEDURE

1. The EUT was placed on a turntable, which was 0.8m above ground plane.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was maximized by changing the polarization of receiving antenna, both horizontal and vertical.
6. Repeated above procedures until the measurements for all frequencies are completed.

## 6.4 RESULT: PASS





**6.5 TEST DATA:**

All frequencies not described in this test report and within the range of the general radiated emission limits are not detectable significantly. The table as below is representing worst emissions found.

Lowest Channel (worst emissions found)

<u>Frequency (MHz)</u>	<u>Ant. Polarization</u>	<u>Reading (dB<math>\mu</math>V)</u>	<u>Correction factor(dB)</u>	<u>Emission (dB<math>\mu</math>V/m)</u>	<u>Limit (dB<math>\mu</math>V/m)</u>
142.52	H	40.64	-11.38	29.26	43
163.86	H	41.67	-12.41	29.26	43
239.52	H	37.25	-12.02	25.23	46
429.64	H	35.72	-6.54	29.18	46
561.60	H	29.50	-3.94	25.56	46
705.12	H	33.28	-2.30	30.98	46
39.48	V	39.38	-11.17	28.21	43
76.26	V	41.62	-17.35	24.27	43
150.28	V	38.13	-11.79	26.34	43
262.80	V	40.27	-10.89	29.38	46
462.62	V	30.05	-5.72	24.33	46
825.40	V	27.31	-0.51	26.80	46

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor = Antenna factor + Cable loss - PreAmp
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements from 9 kHz to 150 kHz, Peak detector setting: 100 Hz RBW
5. Measurements from 150 kHz to 30MHz, Peak detector setting: 10 kHz RBW
6. Measurements from 30 MHz to 1000 MHz, Peak detector setting: 100 kHz RBW
7. Measurements from 9 kHz to 150 kHz, CISPR Quasi-Peak detector: 200 Hz RBW
8. Measurements from 150 kHz to 30MHz, CISPR Quasi-Peak detector: 9 kHz RBW
9. Measurements from 30 MHz to 1000 MHz, CISPR Quasi-Peak detector: 120 kHz RBW
10. Peak detector measurement data will represent the worst case results.



**7. SECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS)**

The EUT is powered by the battery; therefore this test item is not applicable.

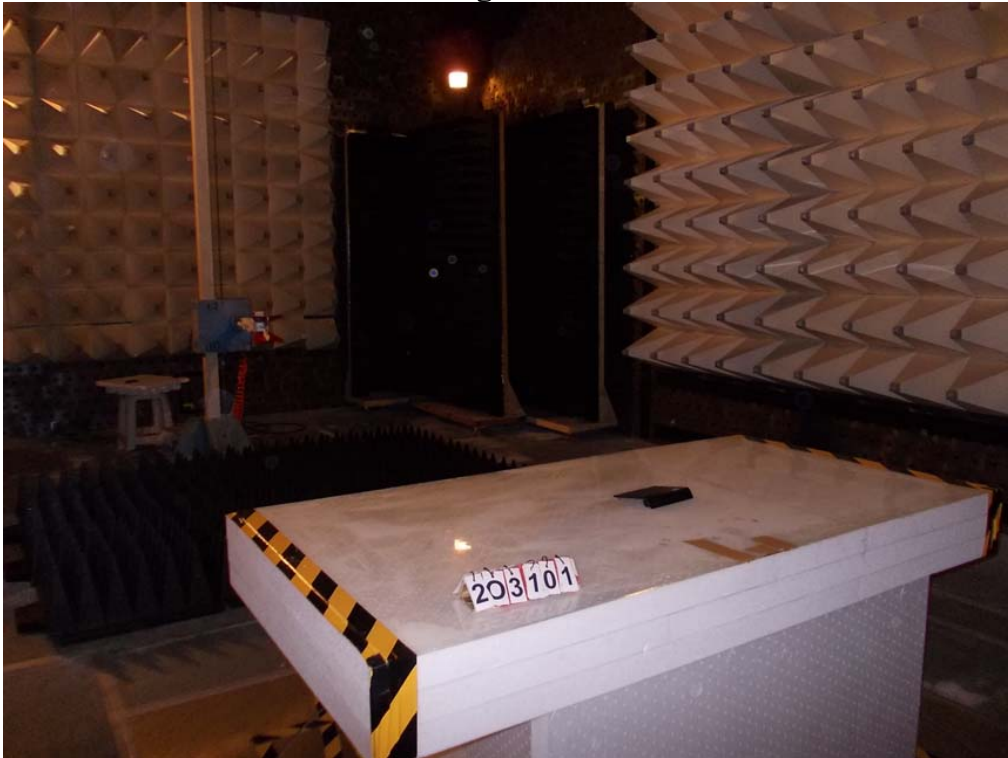


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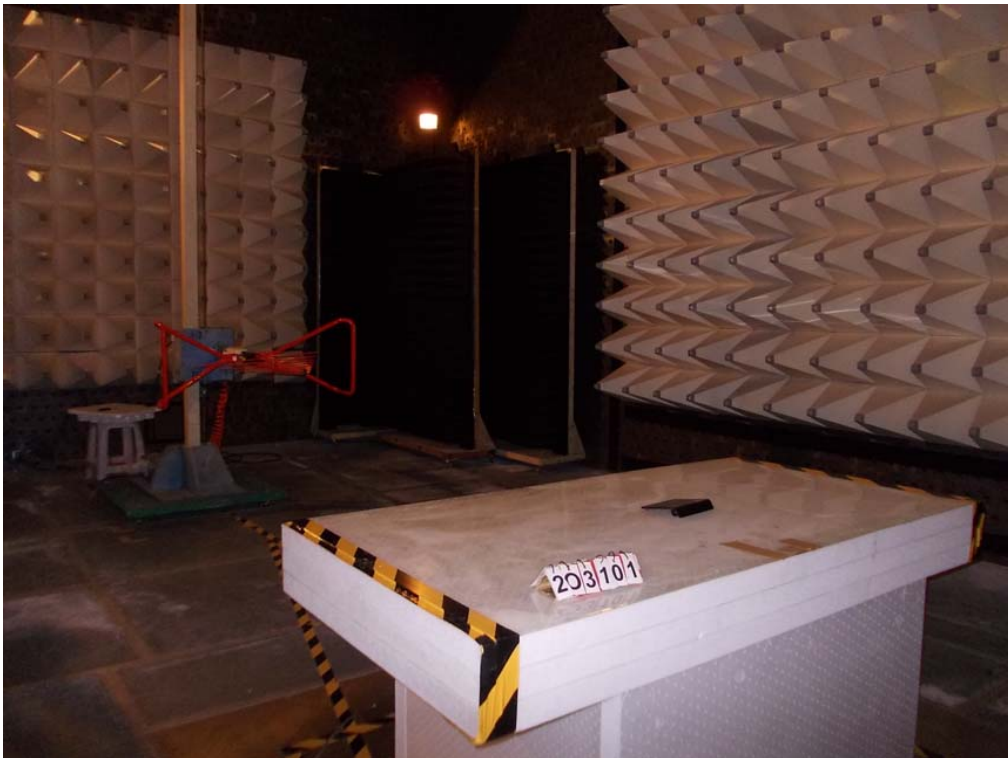
## **Appendix 1**

### **PHOTOS OF TEST CONFIGURATION**

03 966 Highest Channel



04 966 Lowest Channel





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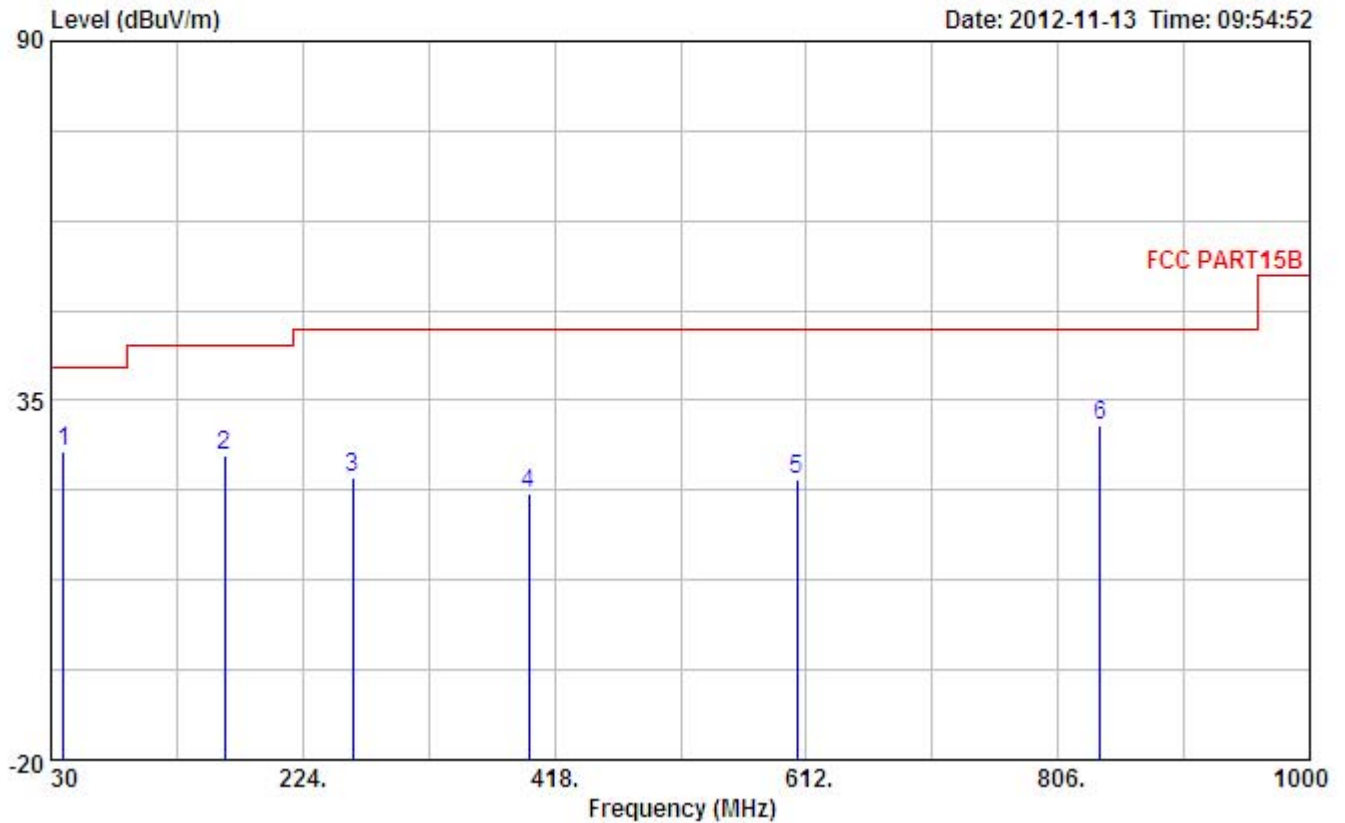
# **Appendix 2**

## **TEST DATA**



Data: 3

File: C:\Documents and Settings\XP\桌面\E3 DATA\203101.EM6 (12)



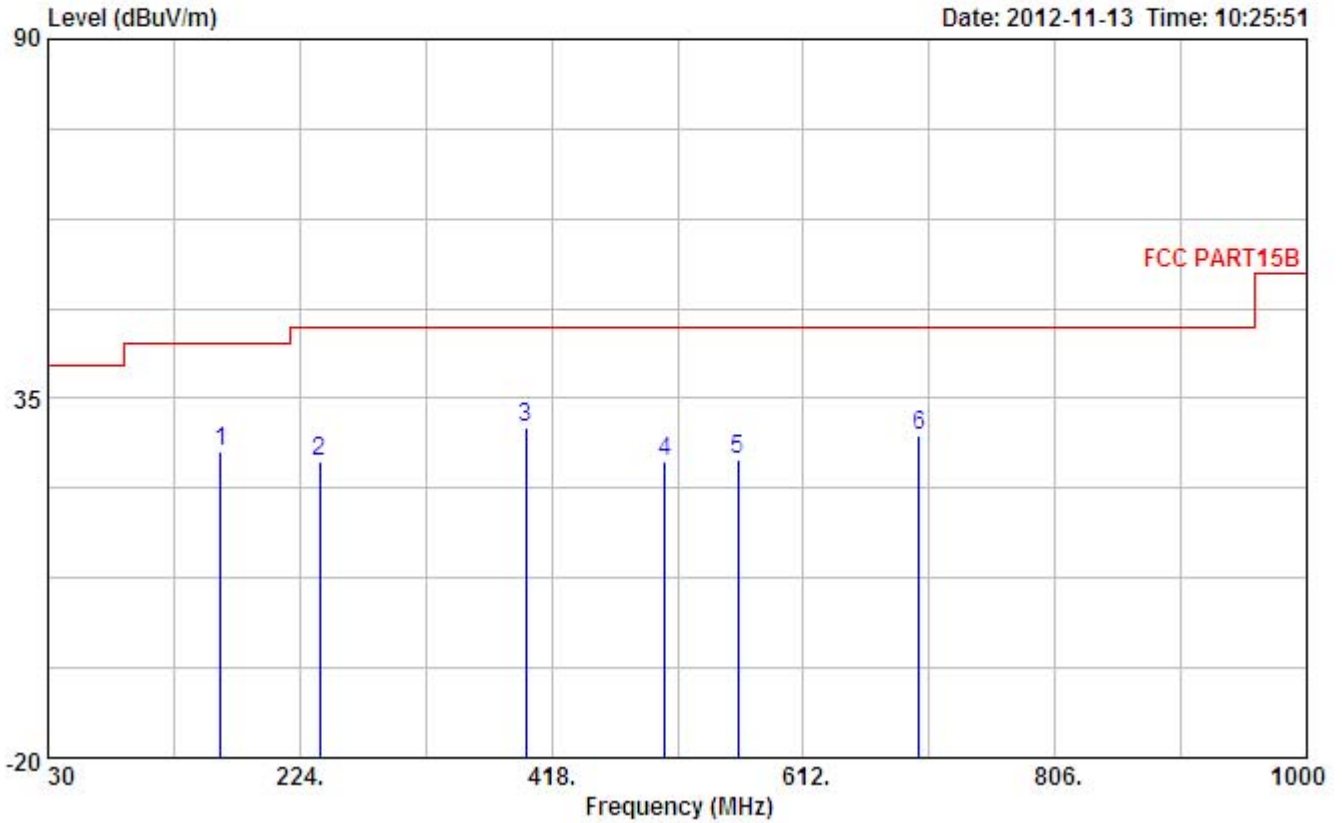
Site : GCC\_RE-01  
 Condition : FCC PART15B VERTICAL  
 EUT : Please refer to page 1 of report.jnt  
 MODEL : Please refer to page 1 of report.jnt  
 MEMO : TX  
 T/H : 26 °C 52%  
 Remarks : Level = Factor + Read Level

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	39.48	38.37	-11.17	27.20	40.00	-12.80	Peak
2	163.48	38.82	-12.39	26.43	43.50	-17.07	Peak
3	262.83	34.06	-10.89	23.17	46.00	-22.83	Peak
4	398.42	28.12	-7.29	20.83	46.00	-25.17	Peak
5	604.67	26.18	-3.38	22.80	46.00	-23.20	Peak
6	838.29	31.47	-0.31	31.16	46.00	-14.84	Peak



Data: 4

File: C:\Documents and Settings\XP\桌面\E3 DATA\203101.EM6 (12)



Site : GCC\_RE-01  
Condition : FCC PART15B HORIZONTAL  
EUT : Please refer to page 1 of report.jnt  
MODEL : Please refer to page 1 of report.jnt  
MEMO : TX  
T/H : 26 °C 52%  
Remarks : Level = Factor + Read Level

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	163.26	39.16	-12.37	26.79	43.50	-16.71	Peak
2	239.50	37.39	-12.02	25.37	46.00	-20.63	Peak
3	398.16	37.74	-7.29	30.45	46.00	-15.55	Peak
4	505.27	30.05	-4.68	25.37	46.00	-20.63	Peak
5	561.29	29.66	-3.95	25.71	46.00	-20.29	Peak
6	701.37	31.61	-2.36	29.25	46.00	-16.75	Peak